2019 Consumer Confidence Report for Public Water System CITY OF PASADENA

This is your water quality report for January 1 to December 31, 2019

For more information regarding this report contact

CITY OF PASADENA provides surface water and ground water from City of Houston PWS 1010013 and Gulf Coast Aquifer in Harris county.

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Phone 713-475-4935

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (713) 477-1511.

Definitions and Abbreviations

Action Level Goal (ALG):

Definitions and Abbreviations The following tables contain scientific terms and measures, some of which may require explanation

The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow

The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety

Regulatory compliance with some MCLs are based on running annual average of monthly samples

Level 1 Assessment: A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water

Maximum Contaminant Level or MCL

Level 2 Assessment: A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred

and or why total coliform bacteria have been found in our water system on multiple occasions

The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology

Maximum Contaminant Level Goal or MCLG: The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety

Maximum residual disinfectant level or MRDL: The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial

Maximum residual disinfectant level goal or MRDLG: The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to

million fibers per liter (a measure of asbestos)

control microbial contaminants

MFL

mrem 2

millirems per year (a measure of radiation absorbed by the body)

nephelometric turbidity units (a measure of turbidity)

picocuries per liter (a measure of radioactivity)

PCI/I OLN

08/03/2020

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Definitions and Abbreviations

ppm

ppb

둱

micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.

milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.

ppq parts per quadrillion, or picograms per liter (pg/L)

Treatment Technique or TT: A required process intended to reduce the level of a contaminant in drinking water.

parts per trillion, or nanograms per liter (ng/L)

Information about your Drinking Water

human activity. through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or

indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPAs Safe Drinking Water Hotline at (800) Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily

Contaminants that may be present in source water include

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife
- gas production, mining, or farming Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses
- from gas stations, urban storm water runoff, and septic systems Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come
- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities

regulations establish limits for contaminants in bottled water which must provide the same protection for public health. In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA

information on taste, odor, or color of drinking water, please contact the system's business office. Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily causes for health concerns. For more

physician or health care providers. Additional guidelines on appropriate means to lessen the risk of infection by Cryptosporidium are available from the Safe Drinking Water steroids; and people with HIV/AIDS or other immune system disorders, can be particularly at risk from infections. You should seek advice about drinking water from your immunocompromised persons such as those undergoing chemotherapy for cancer; persons who have undergone organ transplants; those who are undergoing treatment with Hotline (800-426-4791) You may be more vulnerable than the general population to certain microbial contaminants, such as Cryptosporidium, in drinking water. Infants, some elderly, or

Information about Source Water

CITY OF PASADENA purchases water from CITY OF HOUSTON. CITY OF HOUSTON provides purchase surface water from Trinity River located in Harris county

TCEQ completed an assessment of your source water, and results indicate that some of our sources are susceptible to certain contaminants. The sampling requirements for your water system is based on this susceptibility and previous sample data. Any detections of these contaminants will be found in this Consumer Confidence Report. For more information on source water assessments and protection efforts at our system contact Craig Parker 713-475-4935

Coliform Bacteria

Erosion of natural deposits: Leaching from wood preservatives; Corrosion of household plumbing	z	ppm	0	0.259	1.3	1.3	12/11/2018	Copper
Likely Source of Contamination	Violation	Units	90th Percentile # Sites Over AL	90th Percentile	Action Level (AL)	MCLG	Date Sampled	Lead and Copper

Synthetic organic contaminants including pesticides and herbicides

Collection Date

Highest Level Detected

Range of Individual Samples

MCLG

MCL

Units

Violation

Likely Source of Contamination

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2019	38	0 - 52.5	No goal for the total	60	ppb	z	By-product of drinking water disinfection.

^{*} The value in the Highest Level or Average Detected column is the highest average of all HAA5 sample results collected at a location over a year

Total Tribalomethanes (TTHM)	
2019	
46	
24.8 - 71.6	
No goal for the total	
80	
ррь	
z	
By-product of drinking water disinfection.	

^{*} The value in the Highest Level or Average Detected column is the highest average of all TTHM sample results collected at a location over a year

0.123 0.54	0 - 2.2 0.0359 - 0.123 0.54 - 0.54	4 2 0	10	рры	z z z	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes. Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits. Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
0.123	0.0359 - 0.123	4 2	4.0	mdd	z z	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits. Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
0.54	0.54 - 0.54	4	4.0	ppm	z	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
-	0 - 0.92	10	10	ppm	z	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
0.116	0-0.116	-	- :	ppm	z	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
4.7	0-4.7	50	50	ррb	Z	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.
	0.116		0-0.92	0-0.92 10 0-0.116 1 0-4.7 50	0-0.92 10 10 0-0.116 1 1 0-4.7 50 50	0-0.92 10 10 ppm N 0-0.116 1 I ppm N 0-4.7 50 50 ppb N

s

Simazine	Atrazine
2019	2019
0.13	0.1
0-0.13	0-0.1
4	33
4	3
ppb	ppb
z	z
Herbicide runoff.	Runoff from herbicide used on row crops.

2019 2.7 .5 – 4.40	_
2.7 .5 – 4.40	Disinfectant Residual
Detected .5 – 4.40	Year
ected	Average Level
4	Range of Levels
7	MRDL
4	MRDLG
Measure	Unit of
ppm	Violation (Y/N)
Water additive used to control microbes.	Violation (Y/N) Source in Drinking Water

District Control	District Cant Nesignal	1 691	Avelage Level	Detected	MINDE	MINDEC	Measure	Alongion (1714)	VIDIATOR (27/V) Source III DITIINING WATER
	Chlorine	2019	2.7	.5 – 4.40	4	4	ppm	ppm	Water additive used to control microbes.
Violations	tions								
E. coli	i								
Fecal control	Fecal coliforms and E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Mi headaches, or other symptoms. They may pose a special health risk for infants, young children, and people with severely compromised	acteria whose pres	ence indicates that the ecial health risk for inf	water may be contamina fants, young children, an	ted with human or d people with seve	animal wastes. Micrely compromised	crobes in these wasi iminune systems.	tes can cause short-ten	Fecal coliforms and E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Microbes in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, and people with severely compromised immune systems.
Violati	Violation Type		Violation Begin	Violation End	Violation Explanation	lanation			
MONITO MAJOR	MONITOR GWR TRIGGERED/ADDITIONAL MAJOR	//ADDITIONAL,	08/08/2012	01/31/2020	We failed to co	We failed to collect follow-up sam tested for fecal indicators from all	ples within 24 hour sources that were b	s of learning of the tot eing used at the time tl	We failed to collect follow-up samples within 24 hours of learning of the total collform-positive sample. These needed to be tested for fecal indicators from all sources that were being used at the time the positive sample was collected.